

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: BEN SACKETT Examiner #: 73489 Date: 5/26/05
 Art Unit: 1626 Phone Number 302-0704 Serial Number: 101803, 607
 Mail Box and Bldg/Room Location: Room 5-835 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

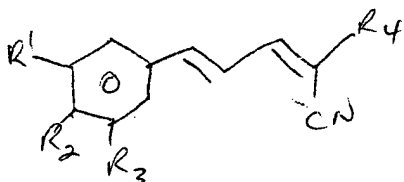
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Novel Compounds for modulating cell proliferation
 Inventors (please provide full names): Roifman et al

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Compounds of structural formula (1)



Best Available Copy

STAFF USE ONLY

	Type of Search	Vendors and cost where applicable
Searcher: <u>A. Fuller</u>	NA Sequence (#) _____	STN <u>✓</u>
Searcher Phone #: _____	AA Sequence (#) _____	Dialog _____
Searcher Location: _____	Structure (#) <u>1</u>	Questel/Orbit _____
Date Searcher Picked Up: _____	Bibliographic _____	Dr.Link _____
Date Completed: <u>5/26/05</u>	Litigation _____	Lexis/Nexis _____
Searcher Prep & Review Time: <u>30</u>	Fulltext _____	Sequence Systems _____
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____
Online Time: <u>20</u>	Other _____	Other (specify) _____



STIC Search Report

EIC 1700

STIC Database Tracking Number: 154102

**TO: Ben Sackey
Location: REM 5B35
Art Unit : 1626
May 26, 2005**

Case Serial Number: 10/803607

**From: Kathleen Fuller
Location: EIC 1700
REMSSEN 4B28
Phone: 571/272-2505
Kathleen.Fuller@uspto.gov**

Search Notes

=> FILE REG

FILE 'REGISTRY' ENTERED AT 15:47:48 ON 26 MAY 2005

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STRUCTURE FILE UPDATES: 25 MAY 2005 HIGHEST RN 851163-60-5

DICTIONARY FILE UPDATES: 25 MAY 2005 HIGHEST RN 851163-60-5

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> FILE HCAPLU

FILE 'HCAPLUS' ENTERED AT 15:47:52 ON 26 MAY 2005

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FILE COVERS 1907 - 26 May 2005 VOL 142 ISS 22

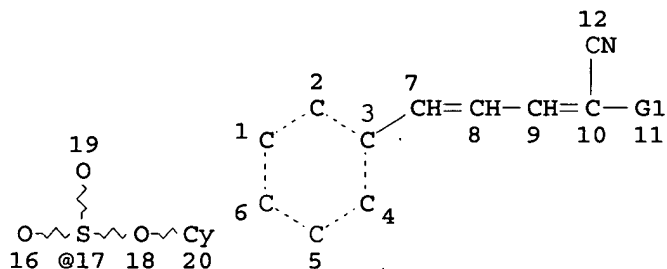
FILE LAST UPDATED: 25 May 2005 (20050525/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> D QUE
L38

STR



G2~C~G3
13 @14 15

H2N~C~C~NH2
21 @22 23 24

424 structures from query

VAR G1=14/17/NH2/NH/P/22
VAR G2=S/N/O
VAR G3=NH2/OH/NH/AK/O/HY
NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS 24

STEREO ATTRIBUTES: NONE

L40 424 SEA FILE=REGISTRY SSS FUL L38
L41 249 SEA FILE=HCAPLUS ABB=ON L40
L42 5 SEA FILE=HCAPLUS ABB=ON L41 AND CELL(2A) PROLIF?
L43 8 SEA FILE=HCAPLUS ABB=ON L41 AND (CANCER? OR ANTITUMOR? OR NEOPLAS?)
L44 1 SEA FILE=HCAPLUS ABB=ON L41 AND PHARMACE?/SC
L45 1 SEA FILE=HCAPLUS ABB=ON L41 AND PHARMACE?/SC,SC
L46 9 SEA FILE=HCAPLUS ABB=ON L41 (L) THU/RL
L47 11 SEA FILE=HCAPLUS ABB=ON (L42 OR L43 OR L44 OR L45 OR L46)

11 CA references with utility

=> D L47 BIB ABS HITIND HITSTR 1-11

L47 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2005:120874 HCAPLUS

DN 142:197698

TI Preparation of arylcyanopentadienoates as modulators of cell proliferation

IN Roifman, Chaim M.; Demin, Peter; Rounova, Olga; Grunberger, Thomas; Cimpean, Octavian Laurand

PA The Hospital for Sick Children, Can.

SO PCT Int. Appl., 46 pp.

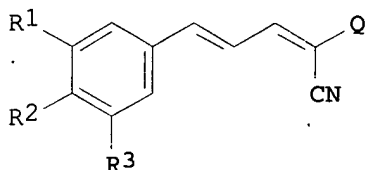
CODEN: PIXXD2

DT Patent

applicants

LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005012234	A1	20050210	WO 2004-CA1431	20040730
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2003-491109P	P	20030730		
OS	MARPAT 142:197698				
GI					



AB Title compds. [I; Q = CO₂XR₄, SO₂R₅; R₁, R₂, R₃ = H, OH, alkyl, alkoxy, alkylcarbonyloxy, amino, alkylcarbonylamino, SH, alkylthio, NO₂, CF₂, OCF₃, halo, etc.; R₄ = (substituted) aryl; R₅ = alkyl, (substituted) Ph, pyridyl; X = (CH₂CH₂O)_n, (CH₂)_n; n = 1-4; with provisos], were prepared Thus, 2-(4-chlorobenzenesulfonyl)-5-(3,4-dihydroxyphenyl)penta-2E,4E-dienenitrile (CRVIII-51) (preparation via Knoevenagel reaction outlined) killed Z119 acute lymphoblastic leukemia cells with IC₅₀ = 0.23 μM.

IC ICM C07C255-41
ICS C07C255-38; C07C255-32; C07D213-71; A61P035-00; A61K032-77; A61K031-4402

CC 25-20 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 1, 63

ST arylcyanopentadienoate prepn **cell proliferation**
modulator; anticancer cyanopentadienoate aryl prepn

IT **Cell proliferation**
(modulators; preparation of arylcyanopentadienoates as modulators of **cell proliferation**)

IT **Antitumor agents**
Drug delivery systems
Human
(preparation of arylcyanopentadienoates as modulators of **cell proliferation**)

IT Hematopoietic precursor cell
(**proliferation** inhibitors; preparation of arylcyanopentadienoates as modulators of **cell proliferation**)

IT **Neoplasm**
(treatment; preparation of arylcyanopentadienoates as modulators of **cell proliferation**)

IT 569343-54-0P 569343-56-2P 569343-58-4P
569343-63-1P 569343-66-4P 569343-72-2P 569343-75-5P

569343-78-8P 569343-80-2P 569343-82-4P 569343-88-0P 569343-91-5P
838853-66-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); **THU**
(**Therapeutic use**); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(claimed compound; preparation of arylcyanopentadienoates as modulators of
cell proliferation)

IT 100-51-6, Benzyl alcohol, reactions 112-35-6, 2-[2-(2-
Methoxyethoxy)ethoxy]ethanol 372-09-8, Cyanoacetic acid 1734-79-8,
4-Nitrocinnamaldehyde 109032-31-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of arylcyanopentadienoates as modulators of **cell**
proliferation)

IT 14447-18-8P, Benzyl cyanoacetate 68149-78-0P, 3,4-
Dihydroxycinnamaldehyde 315178-31-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)

(preparation of arylcyanopentadienoates as modulators of **cell**
proliferation)

IT 569343-54-0P 569343-56-2P 569343-58-4P
569343-63-1P 569343-66-4P

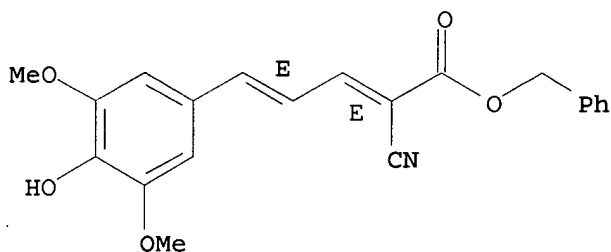
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); **THU**
(**Therapeutic use**); BIOL (Biological study); PREP (Preparation); USES
(Uses)

(claimed compound; preparation of arylcyanopentadienoates as modulators of
cell proliferation)

RN 569343-54-0 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-,
phenylmethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

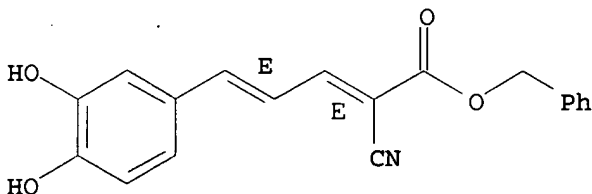
Double bond geometry as shown.



RN 569343-56-2 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(3,4-dihydroxyphenyl)-, phenylmethyl
ester, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

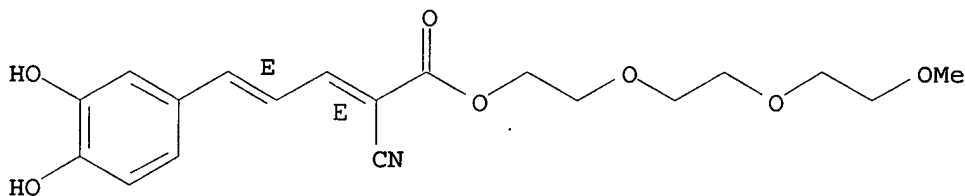


RN 569343-58-4 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(3,4-dihydroxyphenyl)-,

2-[2-(2-methoxyethoxy)ethoxy]ethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

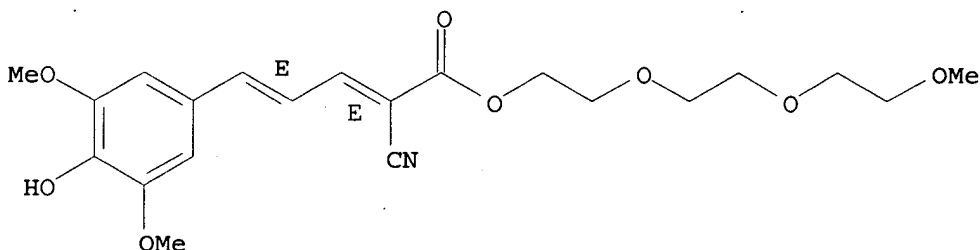
Double bond geometry as shown.



RN 569343-63-1 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-, 2-[2-(2-methoxyethoxy)ethoxy]ethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

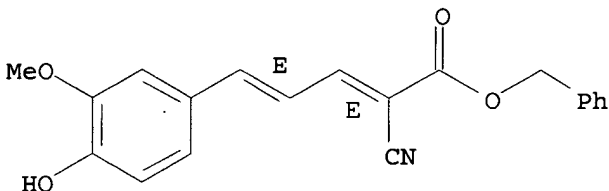
Double bond geometry as shown.



RN 569343-66-4 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(4-hydroxy-3-methoxyphenyl)-, phenylmethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:406958 HCAPLUS

DN 141:116436

TI Tyrenes: synthesis of new antiproliferative compounds with an extended conjugation

AU Demin, Peter; Rounova, Olga; Grunberger, Thomas; Cimpean, Lorand; Sharfe, Nigel; Reifman, Chaim M.

CS Research Institute, Division of Immunology and Allergy, Infection, Immunity, Injury and Repair Program, The Hospital for Sick Children and University of Toronto, Toronto, M5G 1X8, Can.

SO Bioorganic & Medicinal Chemistry (2004), 12(11), 3019-3026
CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Ltd.
 DT Journal
 LA English
 OS CASREACT 141:116436
 AB A series of substituted styryl-acrylonitriles was designed and synthesized. The new compds., called tyrenes, were tested for the ability to inhibit acute lymphocytic leukemia (ALL) **cancer** cell growth, as well as on their toxicity to normal bone marrow (NBM) cells. The results showed that 3,4-dihydroxystyryl-acrylonitriles, in particular CR-4, revealed great potency as **antitumor** agents, and also exhibited low toxicity to normal cells. The effectiveness of these compds. with extended conjugation may be due to their possible functioning as reactive Michael acceptors.

CC 1-3 (Pharmacology)
 Section cross-reference(s): 25

ST tyrene antiproliferative **antitumor** acute lymphocytic leukemia

IT **Antitumor** agents
 Bone marrow
 Human
 (synthesis of new antiproliferative compds., tyrenes, with extended conjugation)

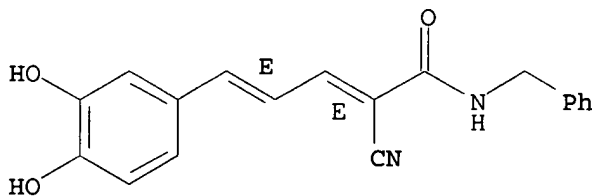
IT **368836-72-0P**
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (synthesis of new antiproliferative compds., tyrenes, with extended conjugation)

IT **368836-70-8P 368836-71-9P 368836-76-4P**
368836-78-6P 368836-79-7P 368836-92-4P
510728-40-2P 721923-86-0P 721923-87-1P
721923-88-2P 721923-89-3P 721923-90-6P
721923-91-7P
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis of new antiproliferative compds., tyrenes, with extended conjugation)

IT **368836-72-0P**
 RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (synthesis of new antiproliferative compds., tyrenes, with extended conjugation)

RN 368836-72-0 HCAPLUS
 CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



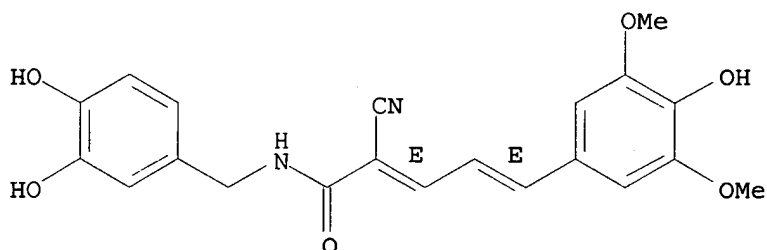
IT 368836-70-8P 368836-71-9P 368836-76-4P
 368836-78-6P 368836-79-7P 368836-92-4P
 510728-40-2P 721923-86-0P 721923-88-2P
 721923-89-3P 721923-90-6P 721923-91-7P

RL: ADV (Adverse effect, including toxicity); PAC (Pharmacological activity); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (synthesis of new antiproliferative compds., tyrenes, with extended conjugation)

RN 368836-70-8 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-(4-hydroxy-3,5-dimethoxyphenyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

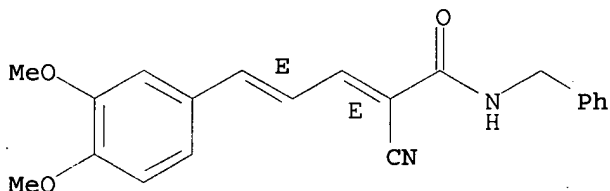
Double bond geometry as shown.



RN 368836-71-9 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dimethoxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

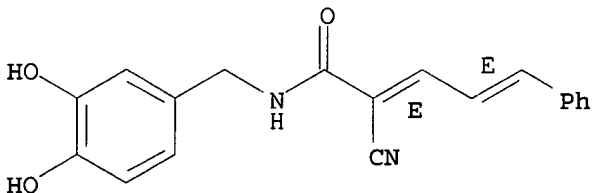
Double bond geometry as shown.



RN 368836-76-4 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-phenyl-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.

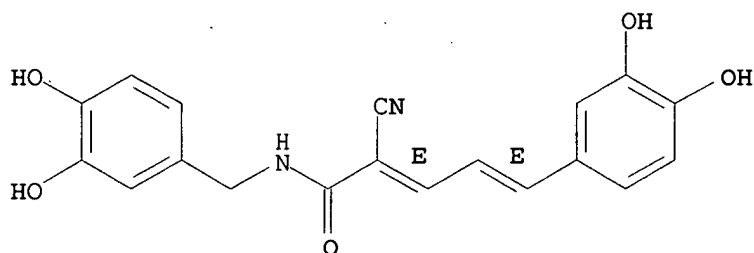


RN 368836-78-6 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-[(3,4-

dihydroxyphenyl)methyl]-, (2E,4E)- (9CI) (CA INDEX NAME)

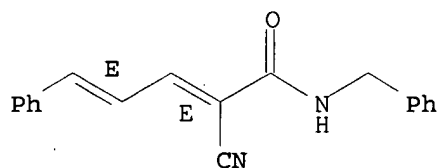
Double bond geometry as shown.



RN 368836-79-7 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-phenyl-N-(phenylmethyl)-, (2E,4E)- (9CI)
(CA INDEX NAME)

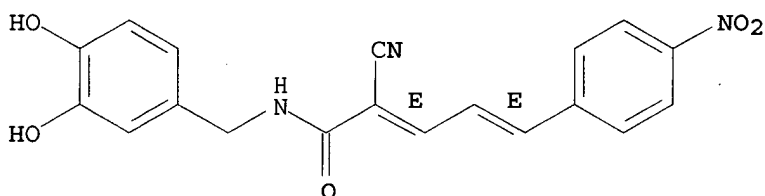
Double bond geometry as shown.



RN 368836-92-4 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-(4-nitrophenyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

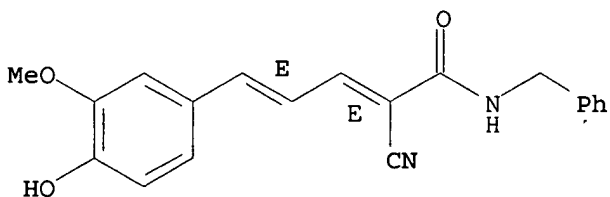
Double bond geometry as shown.



RN 510728-40-2 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(4-hydroxy-3-methoxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

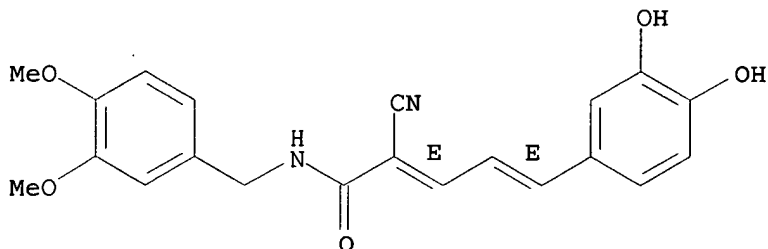
Double bond geometry as shown.



RN 721923-86-0 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-[(3,4-dimethoxyphenyl)methyl]-, (2E,4E)- (9CI) (CA INDEX NAME)

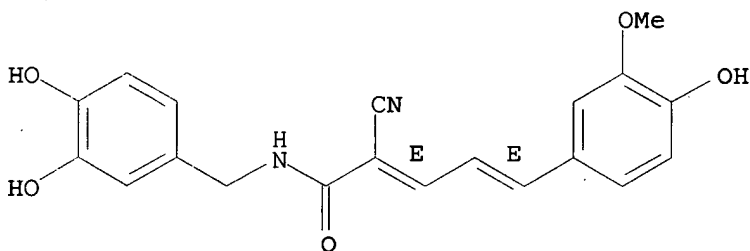
Double bond geometry as shown.



RN 721923-88-2 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-(4-hydroxy-3-methoxyphenyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

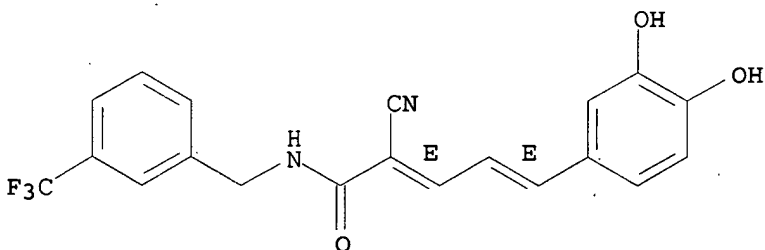
Double bond geometry as shown.



RN 721923-89-3 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-[(3-(trifluoromethyl)phenyl)methyl]-, (2E,4E)- (9CI) (CA INDEX NAME)

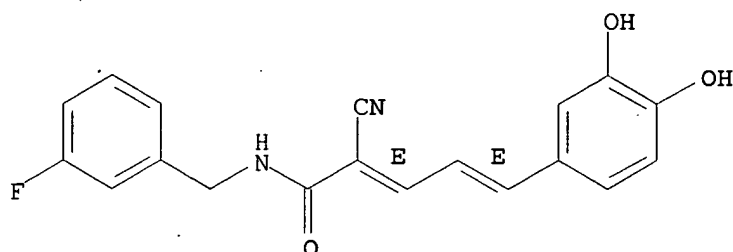
Double bond geometry as shown.



RN 721923-90-6 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-[(3-fluorophenyl)methyl]-, (2E,4E)- (9CI) (CA INDEX NAME)

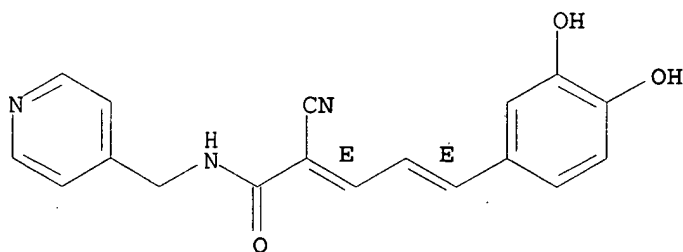
Double bond geometry as shown.



RN 721923-91-7 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-(4-pyridinylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2004:331967 HCAPLUS

DN 140:332499

TI Styrylacrylonitrile compounds, and preparation thereof, for the inhibition of vascular endothelial growth factor

IN Roifman, Chaim M.; Simon, Amos J.; Demmin, Peter M.; Rounova, Olga B.

PA The Hospital for Sick Children, Can.

SO PCT Int. Appl., 80 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004032911	A2	20040422	WO 2003-CA1558	20031010
	WO 2004032911	A3	20040617		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2407755	AA	20040411	CA 2002-2407755	20021011
PRAI	CA 2002-2407755	A	20021011		

US 2002-417642P P 20021011
OS MARPAT 140:332499
AB The invention discloses therapeutic styrylacrylonitrile compds. and inhibition of secretion of vascular endothelial growth factor (VEGF) and its effects, including angiogenesis. Preparation and biol. activity of e.g. (E,E)-2-(benzylaminocarbonyl)-3-(3,4-dihydroxystyryl)acrylonitrile are included.
IC ICM A61K031-165
ICS A61K031-216; A61K031-137; A61K031-277; A61K031-662; A61P035-00; A61P035-02; A61P037-06; A61P031-22; A61P027-02; A61P019-08; A61P017-00
CC 1-8 (Pharmacology)
IT Bone, **neoplasm**
(Ewing's sarcoma; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Mammary gland, **neoplasm**
(Paget's disease; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Blood vessel, **neoplasm**
(angiofibroma; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT **Neoplasm**
(ascites associated with; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT **Neoplasm**
(blood-borne; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Intestine, **neoplasm**
(colon; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Brain, **neoplasm**
(edema associated with; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Blood vessel, **neoplasm**
(hemangioma; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT **Neoplasm**
(hematol.; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Nervous system, **neoplasm**
(meningioma; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT **Neoplasm**
(metastasis; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Meninges
(**neoplasm**, meningioma; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Nerve, **neoplasm**
(neuroblastoma; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Bone, **neoplasm**
Sarcoma
(osteosarcoma; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)
IT Skin, **neoplasm**
(pseudoxanthoma elasticum; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)

IT Eye, **neoplasm**
 (retinoblastoma; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)

IT **Neoplasm**
 (solid; styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)

IT AIDS (disease)
 Angiogenesis
 Angiogenesis inhibitors
 Anti-AIDS agents
 Anti-inflammatory agents
 Antiarthritics
 Antidiabetic agents
 Antirheumatic agents
Antitumor agents
 Antiulcer agents
 Arthritis
 Atherosclerosis
 Behcet's syndrome
 Brain, **neoplasm**
 Burn
 Cardiovascular agents
 Cell migration
Cell proliferation
 Cytotoxic agents
 Dermatitis
 Diabetes mellitus
 Drug delivery systems
 Human
 Inflammation
 Injury
 Intraocular lenses
 Leukemia
 Lyme disease
 Lymphoproliferative disorders
 Mammary gland, **neoplasm**
 Medical goods
 Melanoma
 Myeloproliferative disorders
Neoplasm
 Osteoarthritis
 Pancreas, **neoplasm**
 Preeclampsia
 Prostate gland, **neoplasm**
 Psoriasis
 Rheumatoid arthritis
 Sarcoidosis
 Sick cell anemia
 Sjogren's syndrome
 Syphilis
 Transplant rejection
 Transplant rejection
 Ulcer
 Wound healing promoters
 (styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)

IT **368836-71-9P**
 RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study);
 PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
 (styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)

IT 368836-70-8P 368836-72-0P 368836-75-3P
368836-76-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)

IT 368836-71-9P

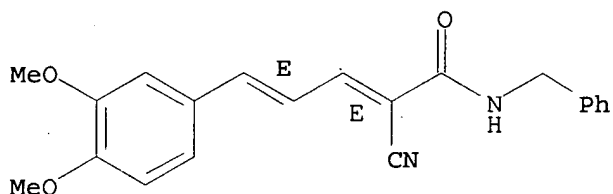
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(styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)

RN 368836-71-9 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dimethoxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 368836-70-8P 368836-72-0P 368836-75-3P
368836-76-4P

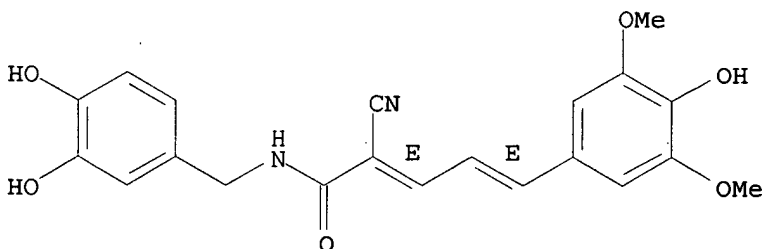
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(styrylacrylonitrile compds., and preparation thereof, for VEGF inhibition)

RN 368836-70-8 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-(4-hydroxy-3,5-dimethoxyphenyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

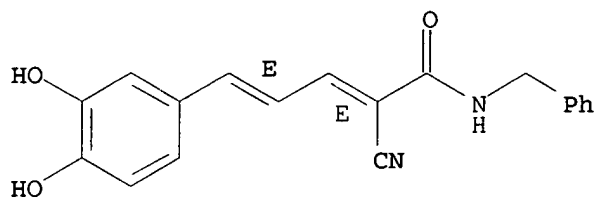
Double bond geometry as shown.



RN 368836-72-0 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

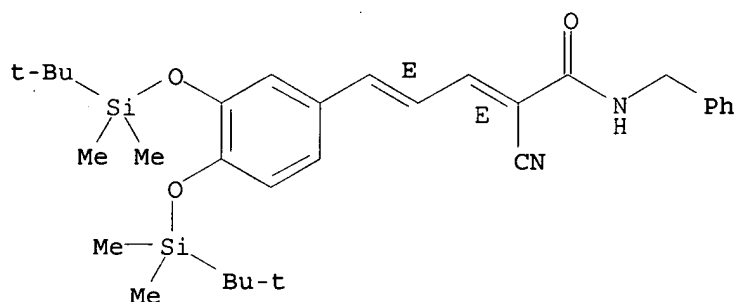
Double bond geometry as shown.



RN 368836-75-3 HCAPLUS

CN 2,4-Pentadienamide, 5-[3,4-bis[[[1,1-dimethylethyl]dimethylsilyl]oxy]phenyl]-2-cyano-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

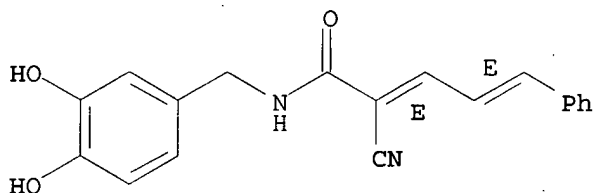
Double bond geometry as shown.



RN 368836-76-4 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-phenyl-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L47 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:952620 HCAPLUS

DN 140:246350

TI Inhibition of acute lymphoblastic and myeloid leukemias by a novel kinase inhibitor

AU Grunberger, Thomas; Demin, Peter; Rounova, Olga; Sharfe, Nigel; Cimpean, Liorand; Dadi, Harjit; Freywald, Andrew; Estrov, Zeev; Roifman, Chaim M.

CS Division of Immunology and Allergy, Department of Pediatrics, Infection, Immunity, Injury, and Repair Program, Research Institute, The Hospital for Sick Children and the University of Toronto, Toronto, ON, Can.

SO Blood (2003), 102(12), 4153-4158

CODEN: BLOOAW; ISSN: 0006-4971

PB American Society of Hematology

DT Journal

LA English

AB In recent years, synthetic tyrosine kinase inhibitors have made a rapid transition from basic research to therapeutic application. These compds. represent a major clin. advance in the approach to **cancer** in their relative specificity of action and decreased toxicity. We report here the effects of a novel tyrosine kinase inhibitor CR4 that interferes with growth-promoting pathways to markedly inhibit the growth and survival of both Philadelphia-pos. and -neg. acute lymphoblastic leukemia (ALL) as well as acute myeloid leukemia (AML). While efficiently ablating leukemic cell growth, normal cell growth and differentiation remain unaffected by CR4. CR4 demonstrates an ability to inhibit the function of multiple growth-critical kinases and yet exhibits a low level of cytotoxicity. These findings suggest that CR4 may prove to be highly effective as a therapeutic agent.

CC 1-6 (Pharmacology)

ST protein tyrosine kinase inhibitor CR4 **antitumor** lymphoblast myeloid leukemia; hydroxystyryl acrylonitrile compd tyrosine kinase **antitumor** lymphoblast myeloid leukemia

IT 368836-72-0

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses) (inhibition of acute lymphoblastic and myeloid leukemias by a novel kinase inhibitor CR4)

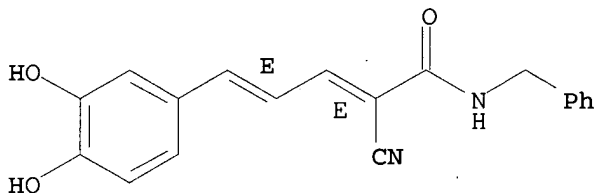
IT 368836-72-0

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); **THU (Therapeutic use)**; BIOL (Biological study); USES (Uses) (inhibition of acute lymphoblastic and myeloid leukemias by a novel kinase inhibitor CR4)

RN 368836-72-0 HCAPLUS

CN 2,4-Pentadienamides, 2-cyano-5-(3,4-dihydroxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:591138 HCAPLUS

DN 139:133348

TI Preparation of arylpentadienoates for modulating cell proliferation

IN Roifman, Chaim M.; Demin, Peter; Grunberger, Thomas; Rounova, Olga; Cimpean, Octavian Laurand

PA The Hospital for Sick Children, Can.

SO PCT Int. Appl., 46 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.

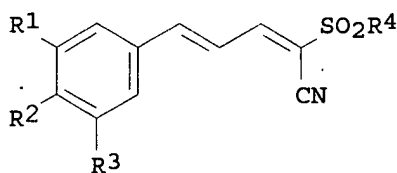
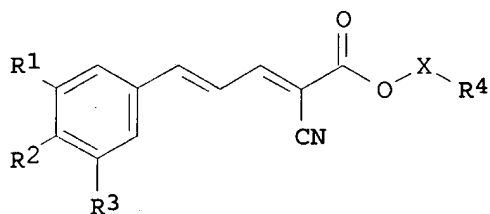
KIND

DATE

APPLICATION NO.

DATE

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 PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ,
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 BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
 CA 2473763 AA 20030731 CA 2003-2473763 20030117
 EP 1467967 A1 20041020 EP 2003-700255 20030117
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 BR 2003007000 A 20041103 BR 2003-7000 20030117
 GB 2401363 A1 20041110 GB 2004-18331 20030117
 US 2005085538 A1 20050421 US 2003-501699 20030117
 PRAI US 2002-349214P P 20020118
 US 2002-349215P P 20020118
 US 2002-349216P P 20020118
 WO 2003-CA32 W 20030117
 OS MARPAT 139:133348
 GI



AB Title compds. I and II [R1-R3 = H, OH, alkyl, alkoxy, (un)substituted NH2, SH, alkylthio, NO2, CF3, OCF3, halo; R4 = (un)substituted aryl; X = (CH2CH2O)_n, (CH2)_n; n = 1-4] were prepared Thus, 3,4-(Me3CMe2SiO)2C6H3CH:CHCH2OH was oxidized and desilylated to give caffeoylaldehyde which was treated with benzyl cyanoacetate to give I [R1, R2 = OH, X = CH2, R3 = H, R4 = Ph] which had IC50 for inhibition of AML-3 acute myeloid leukemia in vitro of 0.09 μM.

IC ICM C07C255-41

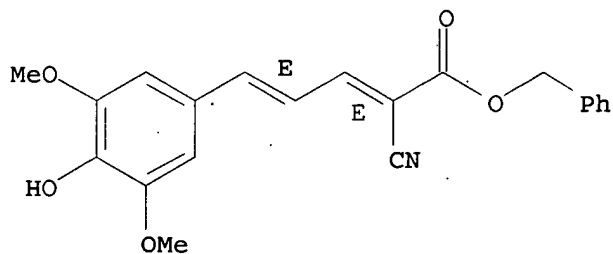
ICS C07C309-73; A61K031-165

CC 25-18 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 1

- IT Leukemia
(acute lymphocytic; preparation of arylpentadienoates for modulating cell proliferation)
- IT Leukemia
(acute myelogenous; preparation of arylpentadienoates for modulating cell proliferation)
- IT Antitumor agents
Cell proliferation
Human
Neoplasm
(preparation of arylpentadienoates for modulating cell proliferation)
- IT 569343-54-0P 569343-56-2P 569343-58-4P
569343-63-1P 569343-72-2P 569343-75-5P 569343-78-8P
569343-80-2P 569343-82-4P 569343-88-0P 569343-91-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylpentadienoates for modulating cell proliferation)
- IT 112-35-6, 2-[2-(2-Methoxyethoxy)ethoxy)ethanol 372-09-8, Cyanoacetic acid 109032-31-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of arylpentadienoates for modulating cell proliferation)
- IT 14447-18-8P, Benzyl cyanoacetate 68149-78-0P, Caffeoylaldehyde 315178-31-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of arylpentadienoates for modulating cell proliferation)
- IT 569343-66-4P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylpentadienoates for modulating cell proliferation)
- IT 569343-54-0P 569343-56-2P 569343-58-4P
569343-63-1P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylpentadienoates for modulating cell proliferation)
- RN 569343-54-0 HCAPLUS
CN 2,4-Pentadienoic acid, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-, phenylmethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

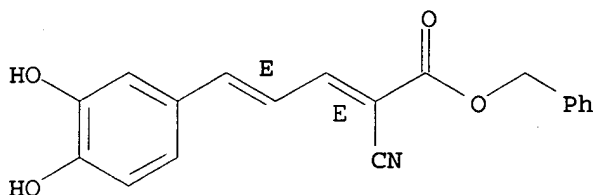
Double bond geometry as shown.



RN 569343-56-2 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(3,4-dihydroxyphenyl)-, phenylmethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

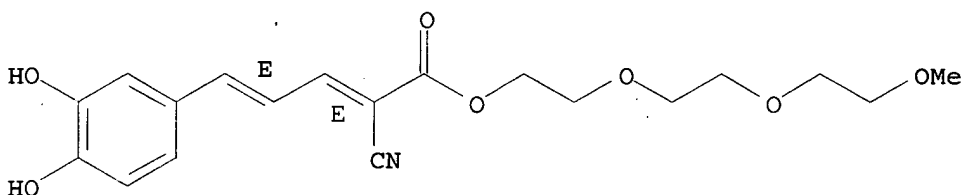
Double bond geometry as shown.



RN 569343-58-4 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(3,4-dihydroxyphenyl)-, 2-[2-(2-methoxyethoxy)ethoxy]ethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

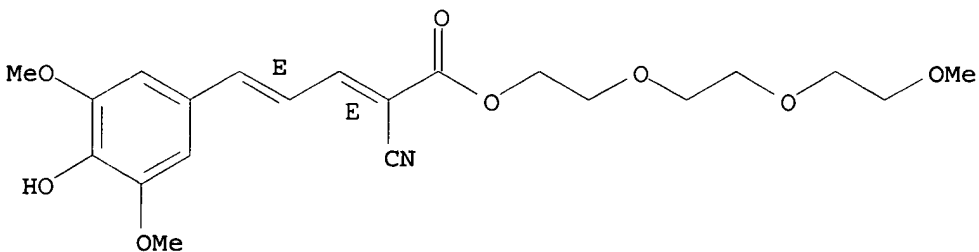
Double bond geometry as shown.



RN 569343-63-1 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-, 2-[2-(2-methoxyethoxy)ethoxy]ethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



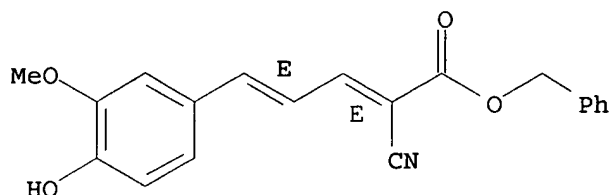
IT 569343-66-4P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of arylpentadienoates for modulating cell proliferation)

RN 569343-66-4 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-(4-hydroxy-3-methoxyphenyl)-, phenylmethyl ester, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:300883 HCAPLUS
DN 138:297649
TI Styryl acrylonitrile compounds, their preparation, and their use to promote myelopoiesis
IN Roifman, Chaim M.; Grunberger, Thomas; Sharfe, Nigel; Rounova, Olga B.; Demin, Peter M.; Freywald, Andrew
PA The Hospital for Sick Children, Can.
SO PCT Int. Appl., 56 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003030895	A1	20030417	WO 2002-CA1548	20021011
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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CA 2463133	AA	20030417	CA 2002-2463133	20021011
EP 1453500	A1	20040908	EP 2002-767023	20021011
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US 2005014690	A1	20050120	US 2004-492251	20040913
PRAI US 2001-329168P	P	20011011		
WO 2002-CA1548	W	20021011		
AB The invention discloses the use of styryl acrylonitrile compds. to promote myelopoiesis. The compds. may be used to treat a subject suffering from neutropenia and other conditions which would benefit from increased myelopoiesis. Moreover, the compds. may be used to treat hematopoietic cells ex-vivo to promote myelopoiesis and therefore may be used advantageously in bone marrow or peripheral blood stem cell transplant.				
IC ICM A61K031-277				
ICS A61P015-06				
CC 1-7 (Pharmacology)				
Section cross-reference(s): 25				
IT Neoplasm				
(neutropenia secondary to malignancy; styryl acrylonitrile compound preparation and use to promote myelopoiesis)				
IT 368836-71-9P 368836-75-3P				

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(styryl acrylonitrile compound preparation and use to promote myelopoiesis)

IT 368836-70-8P 368836-72-0P 368836-76-4P
368836-82-2P 510728-39-9P 510728-40-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(styryl acrylonitrile compound preparation and use to promote myelopoiesis)

IT 368836-71-9P 368836-75-3P

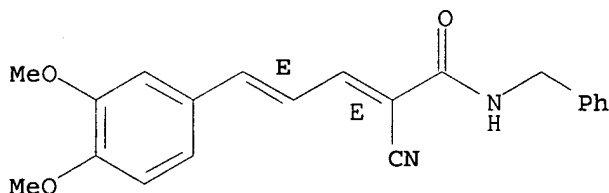
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(styryl acrylonitrile compound preparation and use to promote myelopoiesis)

RN 368836-71-9 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dimethoxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

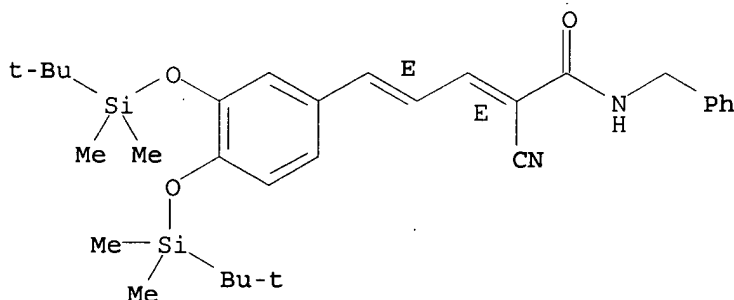
Double bond geometry as shown.



RN 368836-75-3 HCAPLUS

CN 2,4-Pentadienamide, 5-[3,4-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]-2-cyano-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 368836-70-8P 368836-72-0P 368836-76-4P
368836-82-2P 510728-40-2P

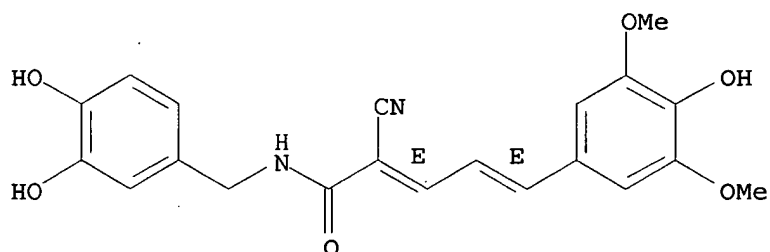
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)

(styryl acrylonitrile compound preparation and use to promote myelopoiesis)

RN 368836-70-8 HCAPLUS

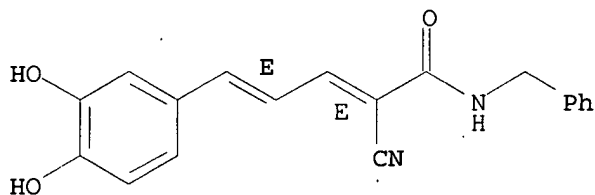
CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-(4-hydroxy-3,5-dimethoxyphenyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



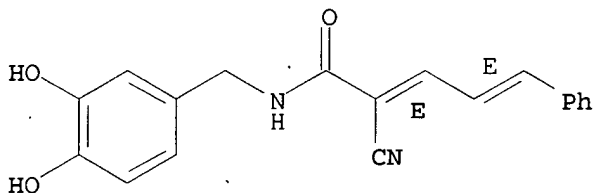
RN 368836-72-0 HCAPLUS
 CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-(phenylmethyl)-,
 (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



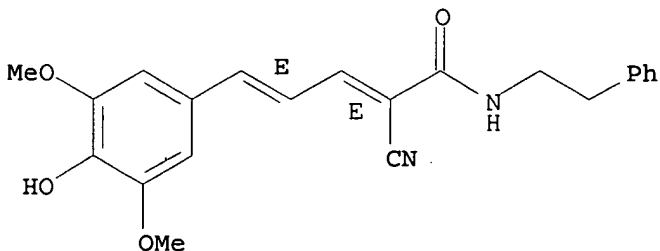
RN 368836-76-4 HCAPLUS
 CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-phenyl-,
 (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 368836-82-2 HCAPLUS
 CN 2,4-Pentadienamide, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-N-(2-phenylethyl)-,
 (2E,4E)- (9CI) (CA INDEX NAME)

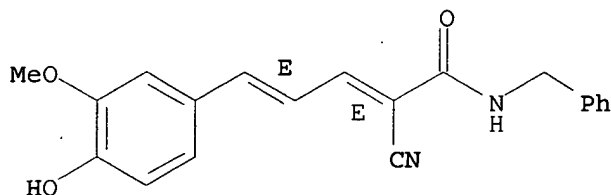
Double bond geometry as shown.



RN 510728-40-2 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(4-hydroxy-3-methoxyphenyl)-N-(phenylmethyl)-
, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L47 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:780841 HCAPLUS

DN 135:318329

TI Novel compounds for modulating cell proliferation

IN Roifman, Chaim M.; Grunberger, Thomas; Rounova, Olga; Demin, Peter;
Sharfe, Nigel

PA Hsc Research and Development Limited Partnership, Can.

SO PCT Int. Appl., 100 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001079158	A2	20011025	WO 2001-CA516	20010412
	WO 2001079158	A3	20020131		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2406160	AA	20011025	CA 2001-2406160	20010412
	EP 1272457	A2	20030108	EP 2001-921087	20010412
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	GB 2378948	A1	20030226	GB 2002-26316	20010412
	GB 2378948	B2	20041110		
	US 2003109502	A1	20030612	US 2001-834728	20010412
	US 6800659	B2	20041005		
	JP 2003531133	T2	20031021	JP 2001-576760	20010412
	BR 2001010087	A	20040217	BR 2001-10087	20010412
	US 2004072803	A1	20040415	US 2003-240740	20031027
	US 2004209845	A1	20041021	US 2004-803607	20040317
PRAI	US 2000-196936P	P	20000413		
	US 2001-834728	A1	20010412		
	WO 2001-CA516	W	20010412		

OS MARPAT 135:318329

AB Novel styrylacrylonitrile compds. which are useful in treating a variety of cell proliferative disorders such as cancer

are disclosed. Thus, (E,E)-2-(benzylaminocarbonyl)-3-(3,4-dimethoxystyryl)acrylonitrile, prepared in 62% yield by condensation of 3,4-dimethoxycinnamaldehyde with N-(cyanoacetyl)benzylamine, was demethylated with BBr₃ to give 55% (E,E)-2-(benzylaminocarbonyl)-3-(3,4-dihydroxystyryl)acrylonitrile, useful in treating a variety of **cell proliferative disorders**. Approx. 30 other styrylacrylonitriles were similarly prepared

IC ICM C07C255-00

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 1

IT **Antitumor agents**

Cell proliferation

Proliferation inhibition

(preparation of styrylacrylonitriles useful in treating a variety of **cell proliferative disorders such as cancer**)

IT 368836-70-8P 368836-72-0P 368836-76-4P

368836-78-6P 368836-89-9P 368836-90-2P

368836-91-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of styrylacrylonitriles useful in treating a variety of **cell proliferative disorders such as cancer**)

IT 64-04-0, Benzeneethanamine 100-46-9, Benzylamine, reactions 104-55-2, Cinnamaldehyde 105-34-0, Methyl cyanoacetate 107-91-5, Cyanoacetamide 141-43-5, 2-Ethanolamine, reactions 331-39-5, 3,4-Dihydroxycinnamic acid 372-09-8, Cyanoacetic acid 868-54-2, 2-Amino-1-propene-1,1,3-tricarbonitrile 1734-79-8, 4-Nitrocinnamaldehyde 2316-26-9, 3,4-Dimethoxycinnamic acid 5763-61-1, 3,4-Dimethoxybenzylamine 7357-70-2, Cyanothioacetamide 18162-48-6, tert-Butylchlorodimethylsilane 36250-64-3, Phenylpropylamine 87345-53-7, 3,5-Dimethoxy-4-hydroxycinnamaldehyde 328384-64-1 368836-69-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of styrylacrylonitriles useful in treating a variety of **cell proliferative disorders such as cancer**)

IT 3843-74-1P, Methyl 3,4-dihydroxycinnamate 4497-40-9P, 3,4-Dimethoxycinnamaldehyde 5396-64-5P, Methyl 3,4-dimethoxycinnamate 10412-93-8P, N-(2-Cyanoacetyl)benzylamine 15029-40-0P 18523-76-7P, 3,4-Dimethoxycinnamyl alcohol 51838-02-9P 133550-33-1P 244293-59-2P 368836-71-9P 368836-73-1P 368836-74-2P 368836-75-3P 368836-77-5P 368836-88-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of styrylacrylonitriles useful in treating a variety of **cell proliferative disorders such as cancer**)

IT 368836-79-7P 368836-80-0P 368836-81-1P 368836-82-2P 368836-83-3P 368836-84-4P 368836-85-5P 368836-86-6P 368836-87-7P 368836-92-4P 368836-93-5P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of styrylacrylonitriles useful in treating a variety of **cell proliferative disorders such as cancer**)

IT 368836-70-8P 368836-72-0P 368836-76-4P 368836-78-6P 368836-89-9P 368836-90-2P 368836-91-3P

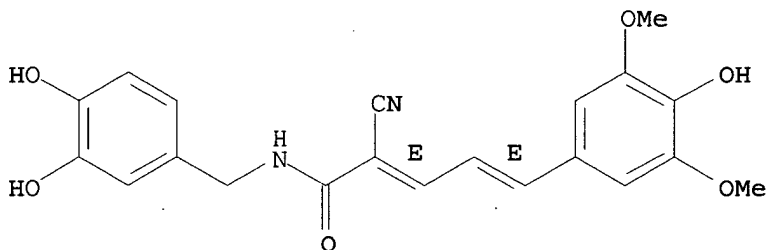
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation of styrylacrylonitriles useful in treating a variety of cell proliferative disorders such as cancer)

RN 368836-70-8 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-(4-hydroxy-3,5-dimethoxyphenyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

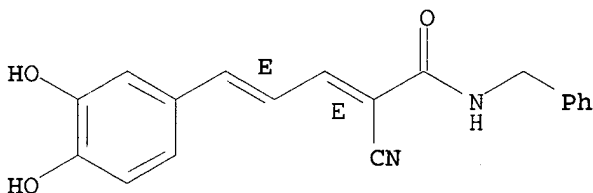
Double bond geometry as shown.



RN 368836-72-0 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

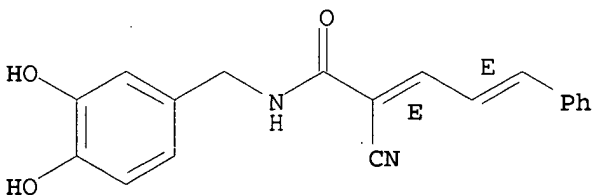
Double bond geometry as shown.



RN 368836-76-4 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-phenyl-, (2E,4E)- (9CI) (CA INDEX NAME)

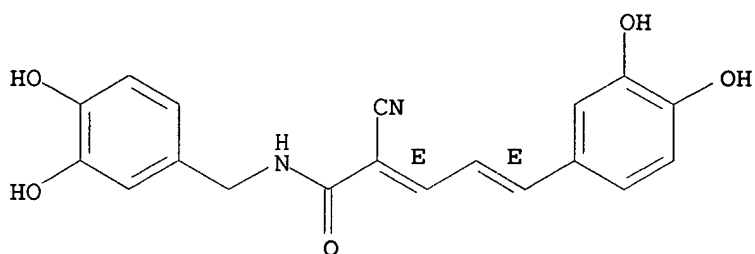
Double bond geometry as shown.



RN 368836-78-6 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-N-[(3,4-dihydroxyphenyl)methyl]-, (2E,4E)- (9CI) (CA INDEX NAME)

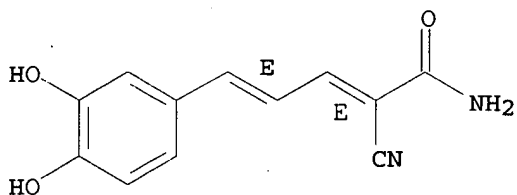
Double bond geometry as shown.



RN 368836-89-9 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dihydroxyphenyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

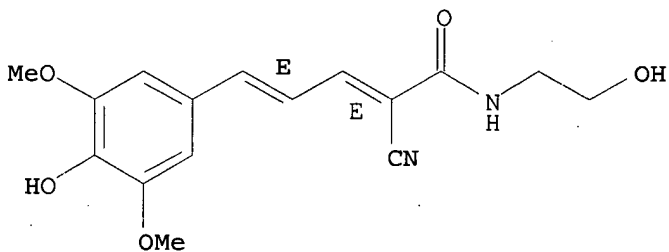
Double bond geometry as shown.



RN 368836-90-2 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-N-(2-hydroxyethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

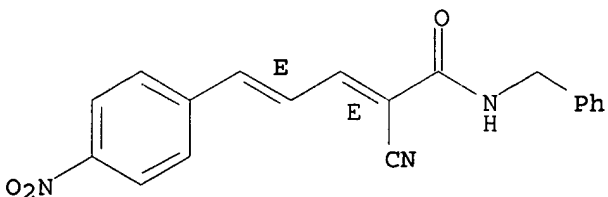
Double bond geometry as shown.



RN 368836-91-3 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(4-nitrophenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 368836-71-9P 368836-75-3P 368836-77-5P

368836-88-8P

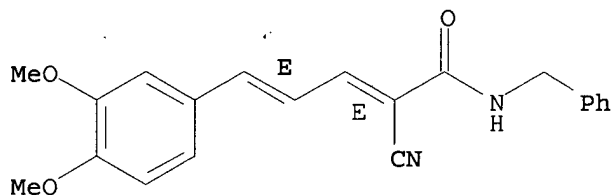
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of styrylacrylonitriles useful in treating a variety of cell proliferative disorders such as cancer)

RN 368836-71-9 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dimethoxyphenyl)-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

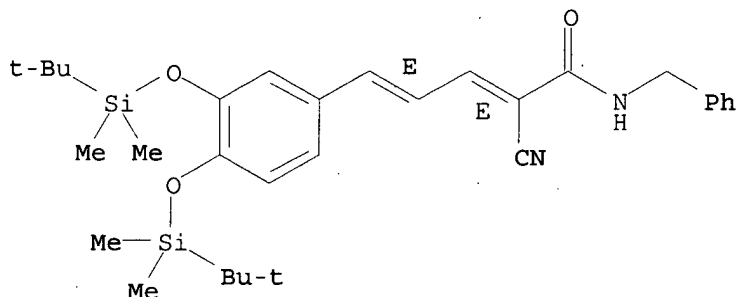
Double bond geometry as shown.



RN 368836-75-3 HCAPLUS

CN 2,4-Pentadienamide, 5-[3,4-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]-2-cyano-N-(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

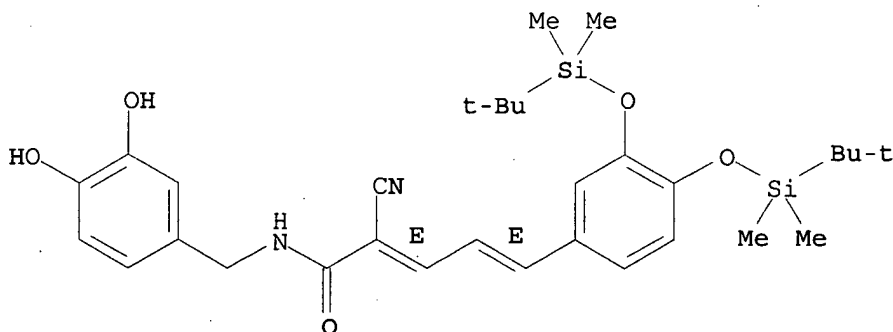
Double bond geometry as shown.



RN 368836-77-5 HCAPLUS

CN 2,4-Pentadienamide, 5-[3,4-bis[[[(1,1-dimethylethyl)dimethylsilyl]oxy]phenyl]-2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-, (2E,4E)- (9CI) (CA INDEX NAME)

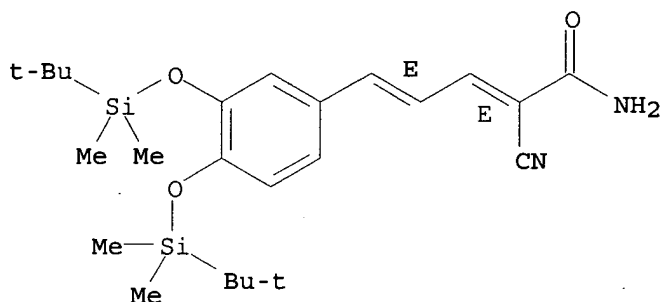
Double bond geometry as shown.



RN 368836-88-8 HCAPLUS

CN 2,4-Pentadienamide, 5-[3,4-bis[[1,1-dimethylethyl]dimethylsilyl]oxy]phenyl
1]-2-cyano-, (2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



IT 368836-79-7P 368836-80-0P 368836-81-1P

368836-82-2P 368836-83-3P 368836-84-4P

368836-85-5P 368836-86-6P 368836-87-7P

368836-92-4P 368836-93-5P

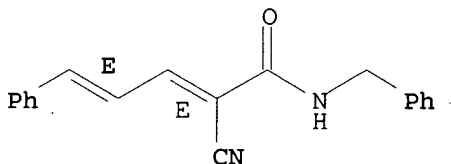
RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of styrylacrylonitriles useful in treating a variety of
cell proliferative disorders such as cancer
)

RN 368836-79-7 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-phenyl-N-(phenylmethyl)-, (2E,4E)- (9CI)
(CA INDEX NAME)

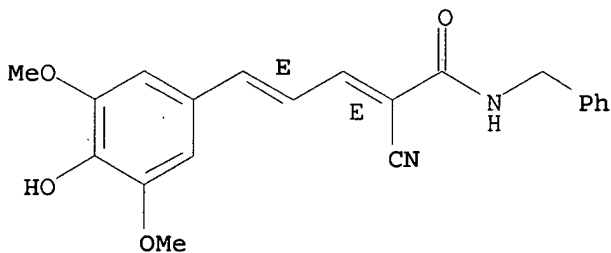
Double bond geometry as shown.



RN 368836-80-0 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-N-
(phenylmethyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

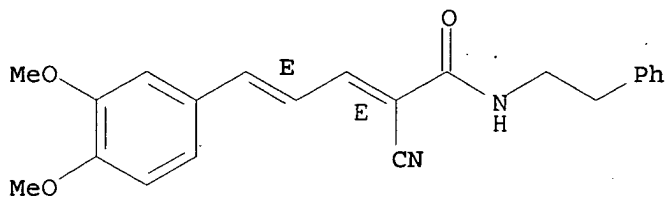
Double bond geometry as shown.



RN 368836-81-1 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(3,4-dimethoxyphenyl)-N-(2-phenylethyl)-,
(2E,4E)-(9CI) (CA INDEX NAME)

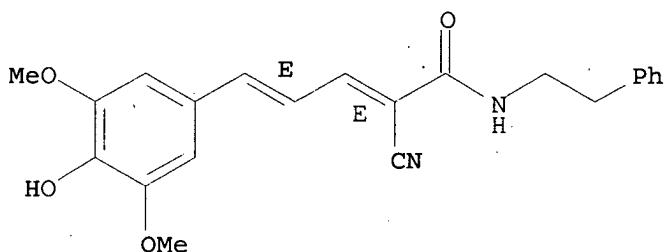
Double bond geometry as shown.



RN 368836-82-2 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-N-(2-phenylethyl)-, (2E,4E)-(9CI) (CA INDEX NAME)

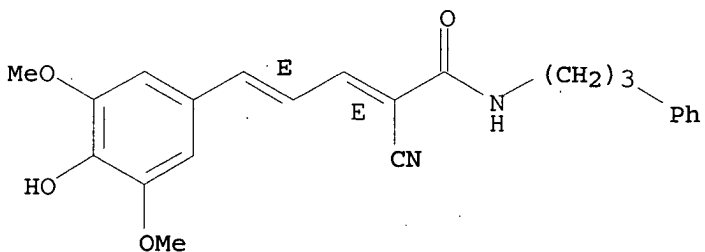
Double bond geometry as shown.



RN 368836-83-3 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-N-(3-phenylpropyl)-, (2E,4E)-(9CI) (CA INDEX NAME)

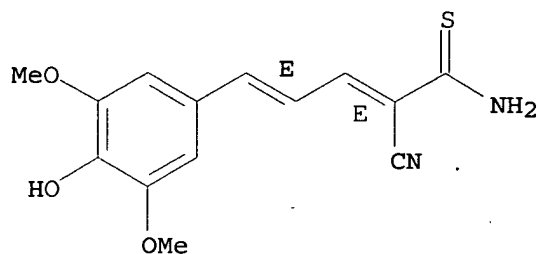
Double bond geometry as shown.



RN 368836-84-4 HCAPLUS

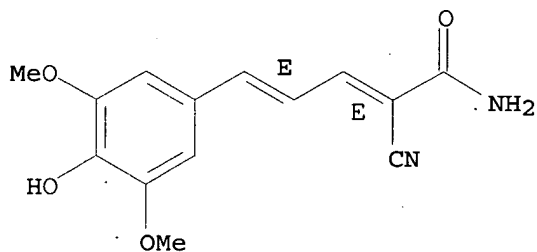
CN 2,4-Pentadienethioamide, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-, (2E,4E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.



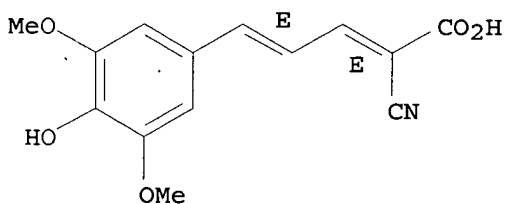
RN 368836-85-5 HCAPLUS
CN 2,4-Pentadienamide, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-, (2E,4E)-
(9CI) (CA INDEX NAME)

Double bond geometry as shown.



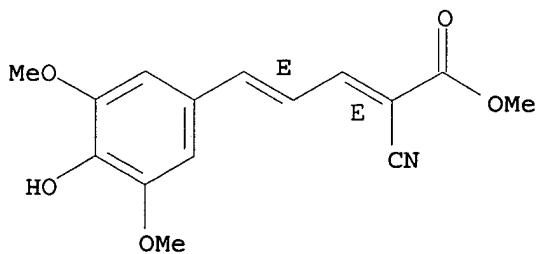
RN 368836-86-6 HCAPLUS
CN 2,4-Pentadienoic acid, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-,
(2E,4E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



RN 368836-87-7 HCAPLUS
CN 2,4-Pentadienoic acid, 2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)-, methyl
ester, (2E,4E)- (9CI) (CA INDEX NAME)

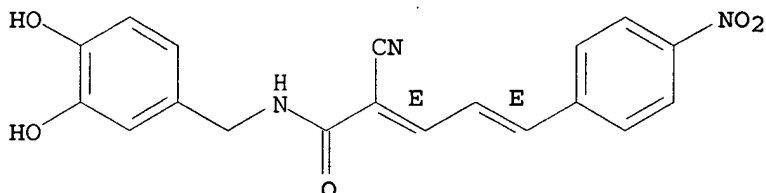
Double bond geometry as shown.



RN 368836-92-4 HCAPLUS

CN 2,4-Pentadienamide, 2-cyano-N-[(3,4-dihydroxyphenyl)methyl]-5-(4-nitrophenyl)-, (2E,4E)- (9CI) (CA INDEX NAME)

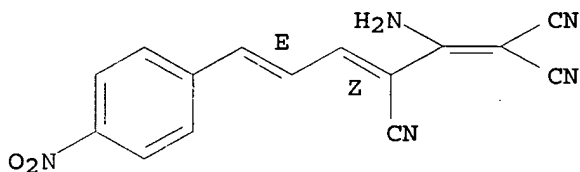
Double bond geometry as shown.



RN 368836-93-5 HCAPLUS

CN 1,3,5-Hexatriene-1,1,3-tricarbonitrile, 2-amino-6-(4-nitrophenyl)-, (3Z,5E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L47 ANSWER 8 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1995:782006 HCAPLUS

DN 123:179478

TI SSI tyrphostin pharmaceuticals.

IN Levitzki, Alexander; Novogrodsky, Abraham; Gazit, Aviv

PA Yisum Research Development Company, Israel; Kupot-Holim Health Insurance Institute

SO PCT Int. Appl., 47 pp.

CODEN: PIXXD2

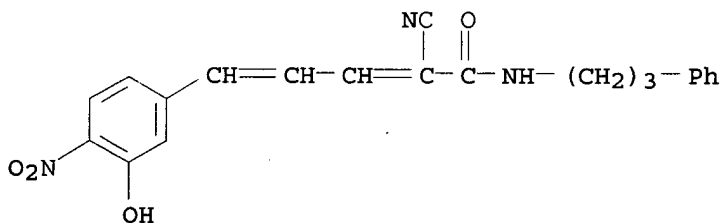
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9514464	A1	19950601	WO 1994-US13535	19941123
	W: AM, AT, AU, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, ES, FI, GB, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LT, LU, LV, MD, MG, MN, MW, NL, NO, NZ, PL, PT, RO, RU, SD, SE, SI, SK, TJ, TT, UA, US, UZ, VN				
	RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
	IL 107736	A1	20010111	IL 1993-107736	19931124
	CA 2177289	AA	19950601	CA 1994-2177289	19941123
	AU 9512935	A1	19950613	AU 1995-12935	19941123
	AU 702800	B2	19990304		
	EP 731697	A1	19960918	EP 1995-904123	19941123
	EP 731697	B1	20010418		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	JP 10504014	T2	19980414	JP 1994-515214	19941123

AT 200618 E 20010515 AT 1995-904123 19941123
 PRAI IL 1993-107736 A 19931124
 WO 1994-US13535 W 19941123
 OS MARPAT 123:179478
 AB SSI tyrphostins are useful in preventing LPS-induced toxicity, TNF α -induced toxicity, LPS-induced increases in TNF α levels, nitric oxide production, and the treatment of septic shock and various immune disorders. A SSI tyrphostin was prepared by the condensation of 2-cyano-N-(3-phenylpropyl)acetamide with p-nitrobenzaldehyde in the presence of β -alanine in EtOH. The effectiveness of the tyrphostin in preventing lipopolysaccharide-induced toxicity was demonstrated in mice.
 IC ICM A61K031-165
 ICS A61K031-275
 CC 63-6 (Pharmaceuticals)
 Section cross-reference(s): 1, 25
 IT 10537-47-0P 60951-74-8P 90947-89-0P 101756-38-1P 116313-73-6P
 118409-56-6P 118409-57-7P 118409-62-4P 158069-71-7P 167493-14-3P
 167493-15-4P 167493-16-5P 167493-17-6P 167493-18-7P 167493-19-8P
 167493-20-1P 167493-21-2P 167493-22-3P 167493-23-4P 167493-24-5P
 167493-25-6P 167493-26-7P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
 (SSI tyrphostin pharmaceuticals for treatment of immune disorders LPS-induced toxicity prevention).
 IT 167493-25-6P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
 (SSI tyrphostin pharmaceuticals for treatment of immune disorders LPS-induced toxicity prevention).
 RN 167493-25-6 HCAPLUS
 CN 2,4-Pentadienamide, 2-cyano-5-(3-hydroxy-4-nitrophenyl)-N-(3-phenylpropyl)-(9CI) (CA INDEX NAME)



L47 ANSWER 9 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1994:579571 HCAPLUS
 DN 121:179571
 TI preparation of isoxazole derivatives as lipoxxygenase inhibitors
 IN Suzuki, Masahiro; Nozaki, Kenzi; Hosoya, Toshiyuki; Suzuki, Takashi; Basaki, Yuzi; Kozima, Mitiyo; Matsuura, Naosuke
 PA Taiho Pharmaceutical Co., Ltd., Japan
 SO PCT Int. Appl., 105 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9410157	A1	19940511	WO 1993-JP1572	19931029
	W: AU, CA, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
	JP 06135948	A2	19940517	JP 1992-333429	19921030
	CA 2126972	AA	19940511	CA 1993-2126972	19931029
	CA 2126972	C	19971223		
	AU 9453450	A1	19940524	AU 1994-53450	19931029
	AU 671170	B2	19960815		
	EP 623603	A1	19941109	EP 1993-923667	19931029
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	US 5478856	A	19951226	US 1994-256058	19940627
PRAI	JP 1992-333429	A	19921030		
	WO 1993-JP1572	W	19931029		
OS	MARPAT 121:179571				
GI					

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Isoxazole derivs. [I; R1, R2 = H, alkyl, alkoxy, halo; R3 = OH. alkyl, alkoxy, acyl, etc.; X = bond, N(Z)CO (wherein Z = H, alkyl, carboxyalkyl, etc.); Y = (un)substituted CH:CH, CH:CHCH:CH; m, n = 0-5] are prepared and formulated. A mixture of isoxazole derivative II, cinnamic acid derivative

III, 1-hydroxybenzotriazole, and DCC in DMF was stirred at room temperature to give 50.6% IV, which showed IC50 of 2.87 μ M and 1.17 μ M against cyclooxygenase and lipoxxygenase, resp. Granular, tablet, capsule, injection, and syrup formulations were given.

IC ICM C07D261-08
ICS C07D261-14; C07D413-12; C07D413-14; A61K031-42; A61K031-44;
A61K031-675

CC 28-6 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 63

IT	157724-49-7P	157724-50-0P	157724-51-1P	157724-52-2P	157724-53-3P
	157724-54-4P	157724-55-5P	157724-56-6P	157724-57-7P	157724-58-8P
	157724-59-9P	157724-60-2P	157724-61-3P	157724-62-4P	
	157724-63-5P	157724-64-6P	157724-65-7P	157724-66-8P	157724-67-9P
	157724-68-0P	157724-69-1P	157724-70-4P	157724-71-5P	157724-72-6P
	157724-73-7P	157724-74-8P	157724-75-9P	157724-76-0P	157724-77-1P
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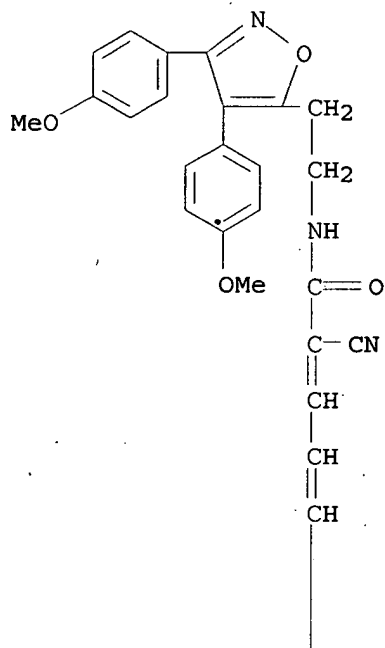
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as lipoxxygenase inhibitor)

IT 157724-59-9P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); **THU (Therapeutic use)**; BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as lipoxxygenase inhibitor)

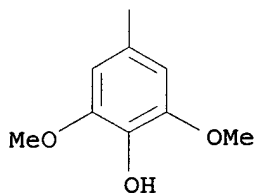
RN 157724-59-9 HCAPLUS

CN 2,4-Pentadienamide, N-[2-[3,4-bis(4-methoxyphenyl)-5-isoxazolyl]ethyl]-2-cyano-5-(4-hydroxy-3,5-dimethoxyphenyl)- (9CI) (CA INDEX NAME)

PAGE 1-A



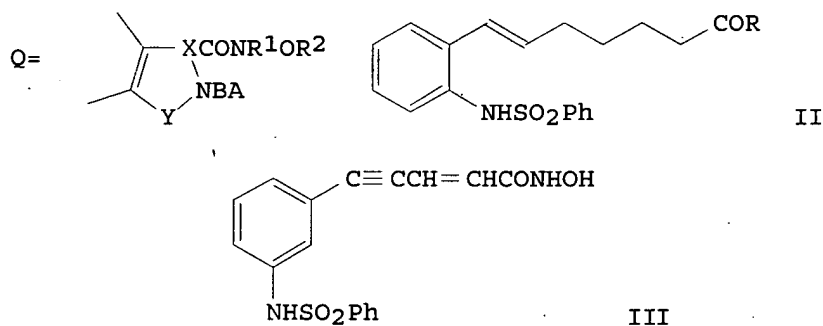
PAGE 2-A



L47 ANSWER 10 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 1994:54333 HCAPLUS
 DN 120:54333
 TI Preparation of sulfonamidoaryl hydroxamic acids as inflammation and tumor inhibitors
 IN Ohtani, Mitsuaki; Arita, Hitoshi; Sugita, Kenji; Matsuura, Takaharu; Shirahase, Kazuhiro
 PA Shionogi and Co., Ltd., Japan
 SO PCT Int. Appl., 125 pp.
 CODEN: PIXXD2
 DT Patent
 LA Japanese
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9312075	A1	19930624	WO 1992-JP1593	19921207
	W: JP, KR, US				
	RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

EP 570594	A1	19931124	EP 1992-924883	19921207
EP 570594	B1	19970730		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, MC, NL, PT, SE				
AT 156116	E	19970815	AT 1992-924883	19921207
ES 2107557	T3	19971201	ES 1992-924883	19921207
JP 3342485	B2	20021111	JP 1993-510775	19921207
US 5534654	A	19960709	US 1993-98272	19930803
PRAI JP 1991-350793	A	19911210		
WO 1992-JP1593	W	19921207		
OS MARPAT 120:54333				
GI				



AB The title compds. R2ONR1COXA1YNR3BA2 (I) [A1 = (substituted) aromatic ring, aromatic heterocyclic ring; A2 = H, (substituted) aryl, aromatic heterocyclic ring; B = single bond, B1B2; B1 = CO, SO2; B2 = alkylene, alkenylene, etc.; X = (substituted) alkylene which may have O, S, N and may have unsatd. bond; Y = single bond, heteroatom, (substituted) alkylene which may contain heteroatom and may have unsatd. bond; X and N (which is linked to Y) may together form a moiety Q; R1 - R3 = H, (substituted) alkyl, aryl] were prepared I inhibit hemangioendothelial cell growth, the development of a lymphocyte adhesion factor, and ras gene-induced cell transformation and are useful as inflammation and tumor inhibitors. Condensation of carboxylic acid (E)-II (R = OH) with NH2OH.HCl in DMF containing N-hydroxysuccinimide, N,N-dicyclohexylcarbodiimide, and Et3n gave (E)-II (R = NHOH). Hydroxamic acid (E)-III in vitro exhibited MIC of 0.039 μ M against ras gene-induced cell transformation.

IC ICM C07C259-06

ICS C07C311-08; C07C311-21; C07D209-18; A61K031-16; A61K031-40

CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 1

IT Transformation, **neoplastic**

(of cells, ras gene induction of, aryl hydroxamic acid inhibition of)

IT **Cell proliferation**

(of endothelium, aryl hydroxamic acid inhibition of)

IT Inflammation inhibitors

Neoplasm inhibitors

(sulfonamidoaryl hydroxamic acids)

IT 21226-31-3P	30461-77-9P	33832-98-3P	34837-67-7P	73282-11-8P
80360-23-2P	89113-18-8P	90312-03-1P	92851-56-4P	117379-58-5P
129866-23-5P	143390-49-2P	151720-48-8P	151720-64-8P	151720-65-9P
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151720-71-7P	151720-72-8P	151720-73-9P	151720-74-0P	
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151721-60-7P	151721-61-8P	152016-52-9P		

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of inflammation and tumor inhibitor)

IT	151720-27-3P	151720-28-4P	151720-29-5P	151720-30-8P	151720-31-9P
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	151720-36-4P	151720-37-5P	151720-38-6P	151720-39-7P	151720-40-0P
	151720-41-1P	151720-42-2P	151720-43-3P	151720-44-4P	151720-45-5P
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	152016-50-7P	153118-62-8P			

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as inflammation and tumor inhibitor)

IT 151720-71-7P 151720-72-8P

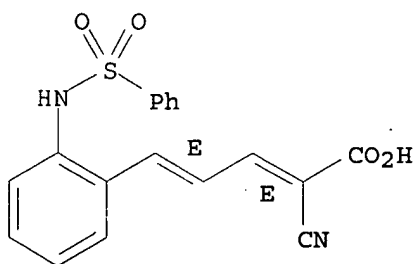
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and reaction of, in preparation of inflammation and tumor inhibitor)

RN 151720-71-7 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-[2-[(phenylsulfonyl)amino]phenyl]-, (E,E)- (9CI) (CA INDEX NAME)

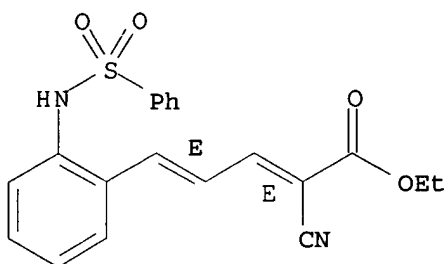
Double bond geometry as shown.



RN 151720-72-8 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-[2-[(phenylsulfonyl)amino]phenyl]-, ethyl ester, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



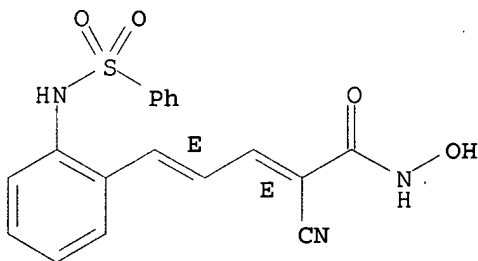
IT 151720-34-2P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as inflammation and tumor inhibitor)

RN 151720-34-2 HCAPLUS

CN 2,4-Pentadienamides, 2-cyano-N-hydroxy-5-[2-[(phenylsulfonyl)amino]phenyl]-, (E,E)- (9CI) (CA INDEX NAME)

Double bond geometry as shown.



L47 ANSWER 11 OF 11 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1991:49360 HCAPLUS

DN 114:49360

TI Ultraviolet radiation absorbing compositions

IN Phalangas, Charalambos J.; Restaino, Alfred J.; Yang, Lau S.

PA ICI Americas, Inc., USA

SO U.S., 9 pp.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4950467	A	19900821	US 1986-930523	19861114
PRAI	US 1986-930523		19861114		

OS MARPAT 114:49360

AB Sunscreen compns. are described, which contain 5-phenylpentadienoate esters which act as UV filters when incorporated in a carrier in amts. ranging from 0.1-50% by weight The Markush structures of 5-phenylpentadienoate esters are described. The compns. of 16 sunscreens are given and 21 esters prepared

IC ICM A61K007-40

ICS A61K007-42; A61K007-44; A61K031-74

INCL 424059000

CC 62-4 (Essential Oils and Cosmetics)

Section cross-reference(s): 25

IT 1552-95-0P, Ethyl 5-phenyl-2,4-pentadienoate 6943-03-9P

KATHLEEN FULLER EIC 1700 REMSON 4B28 571/272-2505

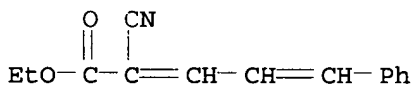
24139-56-8P, Ethyl 2-cyano-5-phenyl-2,4-pentadienoate
 92251-53-1P, Ethyl 2-methyl-5-phenyl-2,4-pentadienoate 95937-30-7P
 131512-67-9P 131512-68-0P 131512-69-1P 131512-70-4P 131512-71-5P
 131512-73-7P, Ethyl 2-ethyl-5-phenyl-2,4-pentadienoate
 131512-74-8P 131512-75-9P, Isoamyl 2-cyano-5-phenyl-2,4-
 pentadienoate 131512-76-0P, Ethyl 2,4-dimethyl-5-phenyl-2,4-
 pentadienoate 131512-78-2P 131512-79-3P, Ethyl 2-butyl-5-phenyl-2,4-
 pentadienoate 131512-80-6P 131512-81-7P, Amyl

2-cyano-5-phenyl-2,4-pentadienoate
 RL: THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (preparation of, as sunscreen)

IT 24139-56-8P, Ethyl 2-cyano-5-phenyl-2,4-pentadienoate
 131512-74-8P 131512-75-9P, Isoamyl 2-cyano-5-phenyl-2,4-
 pentadienoate 131512-80-6P 131512-81-7P, Amyl
 2-cyano-5-phenyl-2,4-pentadienoate
 RL: THU (Therapeutic use); BIOL (Biological study); PREP
 (Preparation); USES (Uses)
 (preparation of, as sunscreen)

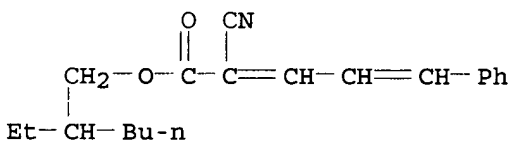
RN 24139-56-8 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-phenyl-, ethyl ester (6CI, 7CI, 8CI, 9CI)
 (CA INDEX NAME)



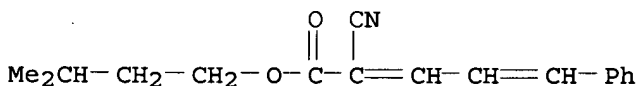
RN 131512-74-8 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-phenyl-, 2-ethylhexyl ester (9CI) (CA
 INDEX NAME)



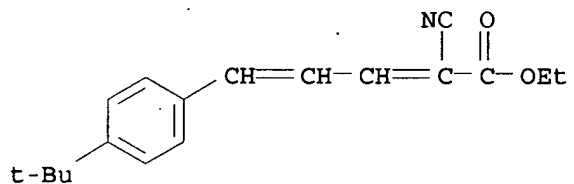
RN 131512-75-9 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-phenyl-, 3-methylbutyl ester (9CI) (CA
 INDEX NAME)

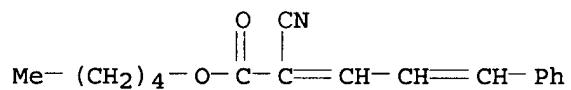


RN 131512-80-6 HCAPLUS

CN 2,4-Pentadienoic acid, 2-cyano-5-[4-(1,1-dimethylethyl)phenyl]-, ethyl
 ester (9CI) (CA INDEX NAME)



RN 131512-81-7 HCAPLUS
 .CN 2,4-Pentadienoic acid, 2-cyano-5-phenyl-, pentyl ester (9CI) (CA INDEX NAME)



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